

The following listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended): A process for production of polymeric organic mouldings, comprising:
  - a) providing a matrix moulding having macroporous and mesoporous cavities,
  - b) filling the cavities of the moulding with a monomer solution,
  - c) polymerizing the monomer solution,
  - d) removing the matrix moulding by washing out and dissolution.
2. (Previously Presented): A process according to Claim 1, wherein the matrix moulding is a silica gel moulding.
3. (Previously Presented): A process according to Claim 1, wherein said matrix moulding is one which has been modified with template molecules.
4. (Previously Presented): A process according to Claim 1, wherein aqueous hydrofluoric acid is used for washing out the matrix moulding.
5. (Withdrawn): A polymeric organic moulding which can be produced by the process according to Claim 1.
6. (Withdrawn): A polymeric organic moulding according to claim 5, wherein the surface of the moulding has separation effectors.
7. (Withdrawn): A chromatographic separating column, containing a moulding according to Claim 5.

8. (Withdrawn): A process for chromatographic separation of at least two substances comprising separating said at least two substances using a moulding according to claim 5.

9. (Currently Amended): A process according to claim 1, wherein said polymeric organic moulding is a flat moulding ~~mouldings~~ having a thickness of 0.2 - 20  $\mu\text{m}$ .

10. (Previously Presented): A process according to claim 1, wherein said polymeric organic moulding is a column-shaped moulding having a diameter of 0.1 cm - 5 cm and a length of 1 - 30 cm.

11. (Previously Presented): A process according to claim 1, wherein said polymeric organic moulding has interconnected macropores having a diameter which has a median value of greater than 0.1  $\mu\text{m}$ , and mesopores, in the walls of the macropores, having a median value of 2 - 100 nm.

12. (Previously Presented): A process according to claim 1, wherein said monomer solution contains monoethylenically or polyethylenically unsaturated monomers.

13. (Previously Presented): A process according to claim 1, wherein said monomer solution contains monomers selected from vinyl monomers, vinylaromatic monomers, vinylaliphatic monomers, vinyl acetates, vinyl propionates, acrylic monomers, ethoxymethyl, and methacrylic acid esters or amides thereof.

14. (New): A process for production of polymeric organic, non-particulate, mouldings, comprising:

- a) providing a silica gel matrix moulding having macroporous and mesoporous cavities,
- b) filling the cavities of the moulding with a monomer solution,
- c) polymerizing the monomer solution,
- d) removing the silica gel matrix moulding by washing out and dissolution,

wherein said polymeric organic moulding is a flat moulding having a thickness of 0.2 - 20  $\mu\text{m}$ , or said polymeric organic moulding is a column-shaped moulding having a diameter of 0.1 cm - 5 cm and a length of 1 - 30 cm, and

said polymeric organic moulding has interconnected macropores having a diameter which has a median value of greater than 0.1  $\mu\text{m}$ , and mesopores, in the walls of the macropores, having a median value of 2 - 100 nm.

15. (New): A process for production of polymeric organic, non-particulate, mouldings, comprising:

- a) providing a silica gel matrix moulding having macroporous and mesoporous cavities,
- b) filling the cavities of the moulding with a monomer solution,
- c) polymerizing the monomer solution,
- d) removing the silica gel matrix moulding by washing out and dissolution,

wherein said matrix moulding is one which has been modified with template molecules, and aqueous hydrofluoric acid is used for washing out the matrix moulding.

16. (New): A chromatographic separation column containing a porous organic moulding, wherein said moulding is prepared according to a process according to claim 1.

17. (New): A chromatographic separation column containing a porous organic moulding, wherein said moulding is prepared according to a process according to claim 14.

18. (New): A chromatographic separation column containing a porous organic moulding, wherein said moulding is prepared according to a process according to claim 15.

19. (New): A process for chromatographic separation of at least two substances comprising separating said at least two substances using a moulding according to claim 5, wherein said moulding is positioned within a radial column, and said moulding has a hole along its longitudinal axis and eluent first enters the moulding via this hole and exits the moulding radially at the periphery.